## Réalt na Mara shellfish

MIN Member: Sharon Sugrue

### OUR STORY

- 4TH GENERATION FISHERMEN IN CROMANE.
- FAMILY RUN BUSINESS.
- SUPPLYING FRESH PURIFIED IRISH MUSSELS AND OYSTERS.
- SELLING BOTH AT HOME AND ABROAD.
- OUR SHELLFISH IS GROWN LOCALLY IN THE CLEAR WATERS OF CASTLEMAINE HARBOUR.



#### WHO WE ARE

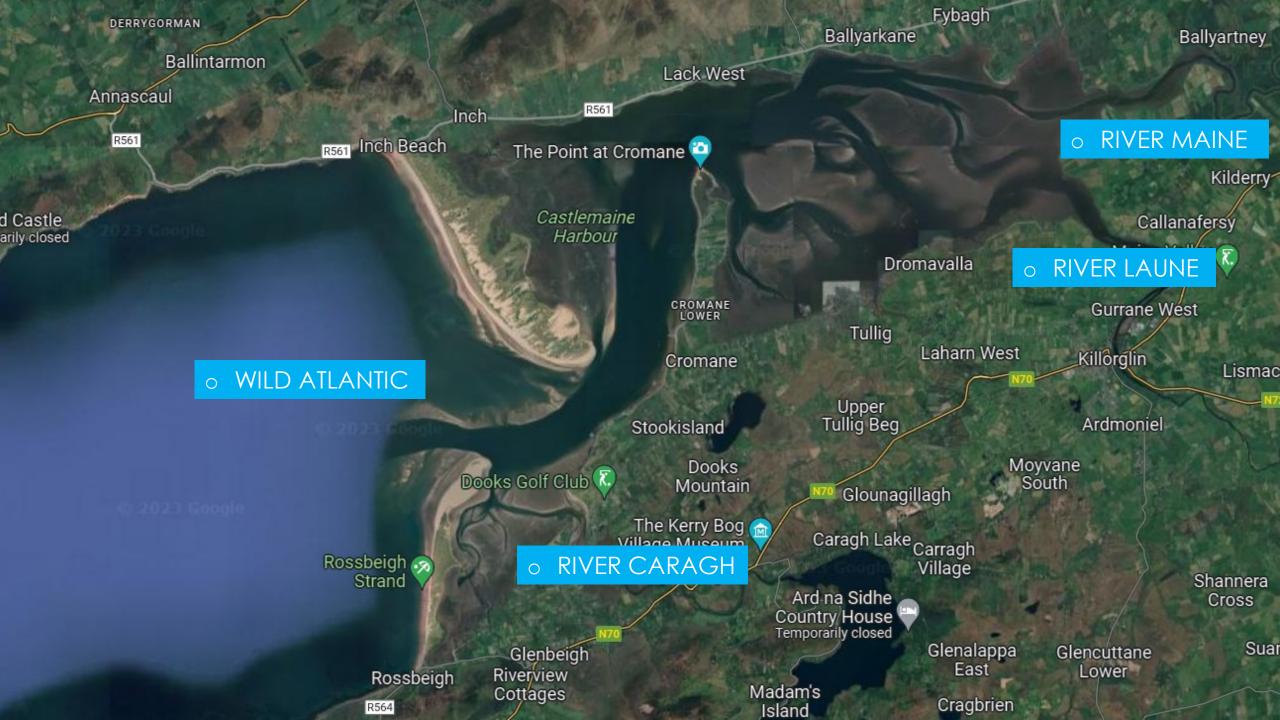


#### WHO WE ARE

Cromane Mussel Station on the 8th of November 1967.

#### LOCATION

• PHOTO CREDIT: TADGH HAYES



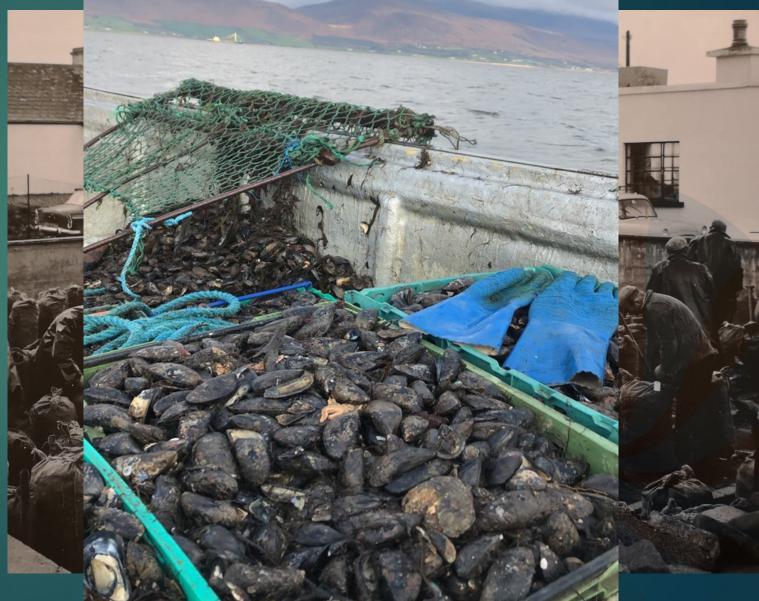
# OUR SHELLFISH





### CROMANE MU

- Mytilus edulis BOTTOM MUSSEL.
- LARGEST NATURAL MUSSEL BED IN IRELAND.
- MUSSEL CULTIVATION TRADITIONAL ACTIVITY.
- WILD MUSSEL SEED TRANSPLANTED TO NURSARY GROUND.
- HARVESTED 2 YEARS LATER BY HAND DREDGE.



# CROM

#### CROMANE

 Crassos • BEST PC NATURA HUSBAN REMOV • DESIRED



#### CROMANE

#### OYSTERS

• "MERROIR"

• EACH OYSTER IS INTIMATLEY IMPACTED BY:

✤ THE BODY OF WATER IT COMES FROM

✤ WHAT IT FEEDS ON

✤ STRENGTH OF CURRENT AND TIDES

- ✤ MINERAL CONTENT OF THE SEAFLOOR
- ✤ RAINFALL
- ✤ TEMPERATURE
- ✤ SEASON & MORE

### PURIFICATION FACILITY

(APPROVAL NUMBER: IE KY 0036 EC)

 FULLY APPROVED IN ACCORDANCE WITH REGULATION (EC) 882/2004.

• SEA FISHERIES PROTECTION AGENCY (SFPA).

• FOOD SAFETY AUTHORITY OF IRELAND (FSAI).

#### PURIFICATION FACILITY

#### • SHELLFISH HARVESTED.

- BROUGHT TO PURIFICATION FACILITY.
- SHELLFISH GRADED AND PRE-WASHED.
- DEPURATION = SHELLFISH
  FILTER UV TREATED SEAWATER.
- OYSTERS 42 HOURS.MUSSELS 36 HOURS.

 DISSOLVED O2, TEMP & SALINITY.
 MAXIMISE THE NATURAL FILTERING ACTIVITY.



○ = EXPLULSION OF ANY DANGEROUS BIO-TOXINS.

### HEALTH BENEFITS

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all and a state



#### SUSTAINABILITY

 INCREASED CONSUMER DEMAND FOR HEALTHY, SUSTAINABLY SOURCED PROTEINS.

- SUSTAINABLE CHOICE.
- LOW IMPACT ON THE ENVIRONMENT.
- PRODUCTION REQUIRES CLEAN WATER.
- DIET COMPOSED OF NATURAL PHYTOPLANKTON.
- PRODUCTION = LOW CARBON FOOTPRINT.



### CARBON SEQUESTRATION

- IRISH AQUACULTURE SECTOR IS A LOW GHG EMISSION SECTOR.
- AQUACULTURE SECTOR ABSORBS MORE CARBON THAN IT EMITS (IE: ACT AS A CARBON SINK).
- MOLLUSCS (E.G., MUSSELS & OYSTERS) ARE AMONGST THE LOWEST EMITTERS OF GHGs.
- HIGH CARBON SEQUESTRATION CAPACITY.
- FILTER FEEDING ACTIVITIES REMOVE ORGANIC CARBON FROM SEAWATER.
- THEY SEQUESTER THIS CARBIN AS CaCO<sub>3</sub> IN THEIR SHELLS AND SOFT TISSUES.
- MUSSEL GROWING SECTOR CONTRIBUTES LESS THAN 1% TOWARDS IRISH SEAFOOD GHG EMISSIONS.
- OYSTER GROWING SECTOR CONTRIBUTES LESS THAN 1% TOWARDS IRISH SEAFOOD GHG EMISSIONS. (\*The GHG emissions for oyster production are low at 235.3 kg CO2 eq./t.) (Carbon Footprint report of the Irish Seafood Sector BIM., 2023)

### CIRCULAR ECONOMY

#### • CIRCULAR USE OF OYSTER SHELLS.

- RECOVERING AND TRANSFORMING SHELLFISH BIO-WASTE INTO NEW PRODUCTS:
- IN AGRICULTURE:

SHELLS NEUTRALISE ACIDITY OF SOIL.IMPROVES STRUCTURE OF THE SOIL.PROVIDES CALCIUM.

#### • IN POULTRY FEED:

- ADDITIONAL CALCIUM TO EGG.
- ALSO HELPS HENS ASSIMILATE PHOSPHORUS IT NEEDS.

#### • IN GARDENING:

- SHELLS ARE NATURAL MINERAL MULCH.
- PREVENTS GROWTH OF WEEDS.
- PROTECTS AGAINTS FROST & HEAT.
- LIMITS EVAPORATION BY KEEPING SOIL MOIST & COOL.
- USED AS PLANTERS, GRAVEL & AS BORDERS.

 IN WATER TREATMENT:
 ACTING AS A FILTER.
 SHELLS ALSO ENSURE A STABLE LEVEL OF pH VALUES IN THE WATER.

#### • IN COSMETICS:

- MOTHER-OF-PEARL IS HIGHLY VALUED FOR IT'S APPLICATIONS IN COSMETICS AND NAIL POLISH.

#### CIRCULAR ECONOMY

WATER TREATMENT

FEED

BUILDING MATERIALS FERTILISERS

COSMETICS

FOOD & PHARMA

#### **THANK YOU!**

#### Any Questions?

#### www.realtnamarashellfish.ie @realtnamara\_shellfish